



## International Rare Donor Panel

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# ISBT

## Rare Donor Program

### Country: Israel

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# Israel

## Rare Donor Program

<b>Rare Donor Program</b>	Yes
<b>National Regional or Facility based</b>	National
<b>Number of Rare Donors</b>	354
<b>Definition of Rare</b>	Negative for a high prevalence antigen ,antigen negative prevalence<1 in 1000. Antigen negative phenotypes combinations prevalence<1 in 1000
<b>Are the donors listed in the International Rare Donor Panel</b>	Following signed informed consent
<b>Frozen Inventory</b>	Yes
<b>How are Rare Donors found</b>	Corresponding antibody detected in a patient /donor Family studies Selected donor phenotyping(most) and genotyping (few)
<b>Number of Rare Donor Units used per year</b>	463 units per year (Including antigen negative combinations)
<b>ISBT Rare Donor WP Blood Shipment form used</b>	Yes
<b>Outcome of incompatible transfusion form used</b>	Infrequently
<b>Most difficult types to find</b>	Rh null
<b>Phenotypes confirmed by molecular testing</b>	Depends on the availability of anti-sera and genotype platform

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Phenotype	Total Active Donors	Group O	O Positive	O Negative	Other ABO/Rh
GE:-2,-3	1			1	
Jk(a-b-)	2	1	1	x	1
Ko	1	x	x	x	1
Kp(b-)	37	14	11	3	23
MkMk	x				
Rh:-34	x				
U-	2	x			2
PP1Pk-	11	4	4		7
SC:-1	x				
En(a-)	x				
At(a-)	x				
Di(b-)	x				
Jr(a-)	3	1	1		2
Rh null	x				
Vel(-)	7	3	3		4
D--	x				
Oh Positive	x				
Oh Negative	x				

# Israel

## How are your rare donors found?

	Yes / No	Method	Comments
<b>Extended phenotyping donors</b>	Yes	Donors are screened according to hospitals needs	
<b>Extended genotyping donors</b>	Selective	Donors are screened according to hospitals needs for DoA/DoB, VEL	Where antisera is available phenotype is confirmed by serology.
<b>Family studies</b>	Yes	Recruitment of family of donors and patients	A letter with information to recruit donors from the family is sent. Rare phenotypes called individually. Family of patients are contacted via the treating clinician.
<b>Antibody investigations</b>	Yes	All donors are screened for red cell antibodies Grifols Erytra.	Use of many different techniques including molecular testing to determine the specificity in patients and donors.
<b>Other</b>	NA	NA	NA



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# Red Cell Product Specifications

Country: Israel

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## Donor Selection – Whole Blood

<b>Donation</b>	Voluntary	
<b>Age or Weight Restrictions</b>	New donors: > 17 parental approval required, First donation $\geq$ 60 Medical approval required, $\geq$ 65 yearly medical approval required >50 kg	
<b>Donation Interval</b>	90 days (3 months)	
<b>Sexual Activity Precautions</b>	Positive for HIV, Hepatitis B/C, or HTLV	Permanent deferral
	Male to male sex	Individual risk assessment
	Sex worker or contact with sex worker	Sex worker - Permanent deferral Contact with sexual worker – 3 month deferral
<b>Travel Exclusions</b> <i>If donor has returned from an area endemic for the listed infectious illnesses</i>	Dengue	4 week deferral
	Ebola	As per Malaria exclusion criteria
	Malaria	1 year deferral if donor has visited an endemic country in the past year 3 year deferral if contracted Malaria or lived in an endemic country > 6 months
	West Nile Virus	NA
<b>Lifestyle</b>	Acupuncture, piercing or tattoo	4 month deferral
	Drug use (Non-prescribed injected)	Permanent deferral
	Incarceration	Deferral for 12 months from date of release
<b>CJD geographic restrictions</b>	Removed as a deferral in 2023	
<b>COVID restrictions</b>	COVID19 vaccine administration	According to vaccine type (none to 12 months)
	COVID infection	7 day deferral after provision of recovery certificate
	Household contact	According to the relevant public health guidelines

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Mandatory Infectious Diseases Screening of Blood Products		
Screening test		Risk of blood transfusion transmission
<b>HIV</b>	HIV-1/2/O Ab & RNA by NAT	
<b>HCV</b>	HCV Ab & RNA by NAT	
<b>HBV</b>	HBsAg & HBV DNA by NAT	
<b>Syphilis</b>	Treponemal Ab	
<b>HTLV (1 &amp; 2)</b>	HTLV-1/2 Ab	
<b>CMV</b>	Not routinely screened If required, donor CMV IgG Ab negative products used Leucodepleted blood products are considered CMV safe	
<b>Zika Virus</b>	NA	NA
<b>West Nile Virus</b>	WNV RNA by NAT each year from June 1 <sup>st</sup> to November 30 <sup>th</sup>	
<b>Babesia</b>	NA	NA
<b>Trypanosoma cruzi (T. cruzi) Chagas Disease</b>	NA	NA

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Red Cells	Packed RBC	Leucocyte Depleted	Leucocyte Depleted with additive solution
<b>Description</b>	A red cell component obtained by removing most of the plasma after centrifuging whole blood collected into anticoagulant.	A red cell component obtained by removing most of the plasma after centrifuging whole blood collected into anticoagulant.	A red cell component obtained by removing most of the plasma after centrifuging whole blood collected into anticoagulant. Red cells resuspended in SAG-M to prolong storage and are filtered to remove most leucocytes.
<b>Anticoagulant</b>	Citrate phosphate dextrose Adenine (CPDA1) 63 mL +/- 10% per pack of whole blood	Citrate phosphate dextrose Adenine (CPDA1) 63 mL +/- 10% per pack of whole blood	Citrate phosphate dextrose (CPD) 66.5 mL +/- 10% per pack of whole blood
<b>Additive Solution</b>	None	None	Saline adenine glucose mannitol (SAG-M) 105 +/- 10% mL
<b>Average volume</b>	280 +/- 27 mL	270 +/- 23 mL	324 +/- 20 mL
<b>Storage Duration</b>	35 days	35 days	42 days
<b>Leukofiltration</b>		leucocyte reduced to <math>5 \times 10^6</math>/unit	leucocyte reduced to <math>5 \times 10^6</math>/unit
<b>Storage Temperature</b>	2°C to 6°C		
<b>Transport Temperature</b>	2°C to 10°C		
<b>Modifications</b>	Phenotype		
<b>Irradiation Policy</b>	Gamma irradiation: 25-50Gy or X-ray irradiation per institution policy		



# Israel

Red Cells	Paediatric Leucocyte Depleted	Washed Leucocyte Depleted	
<b>Description</b>	A leucocyte depleted red cell component divided into four packs of equal volume for the purpose of reducing donor exposure for small paediatric transfusions and to minimise product wastage.	Red cells leucocyte depleted are washed with ACP 215 with 0.9% NaCl . The washed red cells are resuspended in SAG-M2 additive solution or 0.9% NaCl.	
<b>Anticoagulant</b>	Citrate phosphate dextrose Adenine (CPDA1) 63 mL +/- 10% per pack of whole blood	Citrate phosphate dextrose Adenine (CPDA1) 63 mL +/- 10% per pack of whole blood or Citrate phosphate dextrose (CPD) 66.5 mL +/- 10% per pack of whole blood	
<b>Additive Solution</b>	None	Saline adenine glucose mannitol (SAG-M) 100 +/- 10% mL or 0.9% NaCl 100 ml 100 +/- 10% mL	
<b>Average volume</b>	78 +/- 6 mL	313 +/- 23 mL	
<b>Storage Duration</b>	35 days	1 – 7 days	
<b>Leukofiltration</b>	Leucocyte reduced to <math> < 5 \times 10^6 </math>/unit		
<b>Storage Temperature</b>	2°C to 6°C		
<b>Transport Temperature</b>	2°C to 10°C		
<b>Modifications</b>	Phenotype,		
<b>Irradiation Policy</b>	Gamma irradiation: 25-50Gy or X-ray irradiation per institution policy		

# Israel

Frozen Leucocyte Depleted		
<b>Description</b>	Used for patients with rare red cell phenotypes, or multiple red cell antibodies and for autologous collections when liquid-preserved blood cannot fulfil demands. <b>Can be supplied internationally as a frozen product and thawed locally</b>	
<b>Anticoagulant</b>	Citrate phosphate dextrose Adenine (CPDA1) or Citrate phosphate dextrose (CPD)	
<b>Additive Solution</b>	Glycerol is added to red cells as a cryoprotectant	
<b>Leukofiltration</b>	Leucocyte reduced to $<5 \times 10^6$ /unit	
<b>Average volume</b>	290 +/- 5 mL	
<b>Storage Temperature</b>	-65°C to -80°C Frozen within 7 days of collection for CPDA1 RBC or 40 days for SAG-M LR RBC 2°C to 6°C once thawed	
<b>Transport Temperature</b>	Below -65°C 2°C to 10°C once thawed	
<b>Storage Duration</b>	Up to 25 years Can be extended for very rare blood	
<b>Irradiation Policy</b>	Gamma irradiation: 25-50Gy or X-ray irradiation per institution policy	
<b>Other</b>	. After thawing and washing with Saline, the red cells are resuspended in additive solution or 0.9% NaCl and can be used within 72 and 24 hours respectively.	



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# Frozen Inventory

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## General Information

<b>Freezing Method</b>	Glycerolyte 57 using Haemonetics ACP-.215 cell washer
<b>Frozen Expiry (years)</b>	25 years Exceptionally rare units may be retained beyond expiry. If required for issue they are released based on QC data with approval from treating physician
<b>Storage Temperature</b>	≤ -65°C
<b>Can inventory be issued and sent frozen</b>	Yes
<b>Thawing Method</b>	Deglycerolisation with 12% and 0.9% saline using Haemonetics ACP-.215 cell washer
<b>Thawed Expiry (days)</b>	24 or 72 hours
<b>Additive Solution</b>	0.9% saline or SAGM
<b>Irradiation Policy</b>	Issued as a patient tailored product
<b>IUT and Neonate use</b>	Issued as a patient tailored product
<b>Supply out of date Policy</b>	Exceptionally rare units may be retained beyond expiry. If required for issue they are released based on QC data with approval from treating physician

# Israel

## Product Specifications

<b>Volume</b>	> 185mL
<b>Supernatant Haemoglobin</b>	<0,2 g/unit
<b>Haematocrit</b>	0.35 – 0.70 (L/L)
<b>Haemoglobin</b>	≥36 (gr/unit)
<b>Osmolarity</b>	≤367 (mOSm/KgH2O)
<b>Residual leucocyte content</b>	< 1.0 x 10 <sup>6</sup> /unit
<b>Sterility</b>	NA
<b>Other</b>	May be supplied according to physician approval if out of the above mentioned specifications

The screenshot displays the IRDP website interface. On the left, a navigation menu includes options like 'Home', 'Recent', 'Pinned', 'Find Blood', 'Rare Blood Search', 'Search History', 'Help Finding Blood', 'Contribute', 'Institutions', 'Contacts', 'Donors/Units', 'Contributor Dashboard', and 'Help Maintaining Data'. The main area features a world map with red and blue pins indicating donor locations across various continents. On the right, a detailed donor profile is shown for Donor 4737235, including their IRDP ID (002573), ABO Group (O), and a list of antigens present and absent. Below this, profiles for Donor 3438459 and Donor 3191018 (5 Frozen Units) are also visible, along with Donor 3504950 (4 Frozen Units).



# Ordering and Shipping

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## Exporting

<b>Request form available</b>	Yes
<b>Government Requirements</b>	Regulatory approval to National Blood Services to export blood components Customs invoice supplied by Magen David Adom National Blood Services
<b>Regulatory Requirements</b>	NA
<b>Rare Donor Program Requirements</b>	Preferred courier – World Courier Completed request form
<b>Other</b>	NA

# Israel

## Importing

<b>Government Requirements</b>	Regulatory approval to National Blood Services to import blood components
<b>Regulatory Requirements</b>	Meet Ministry of Health Guidelines
<b>Rare Donor Program Requirements</b>	A copy of all test results for the donation e.g. blood group, phenotype and infectious disease screening Temperature monitored transport
<b>Other</b>	NA